

Product Data Sheet

Product Name: CAY10434

Cat. No.: GC41264

Chemical Properties

Cas. No. 769917-29-5

SMILES CN(C)CCCCCOC1=CC=C(N2C=CN=C2)C=C1

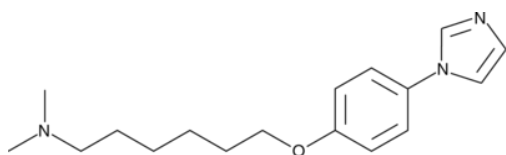
Formula C₁₇H₂₅N₃O M.Wt 287.4

Solubility DMF: 20 mg/ml, DMF:PBS (pH 7.2) Storage Store at -20°C
(1:3): .2 mg/ml, DMSO: 12 mg/ml, Ethanol: 15 mg/ml

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure



Background

20-HETE is an important metabolite of arachidonic acid in the vasculature, especially in the kidney, where it is synthesized by cytochrome P450 (CYP450) enzymes of the 4A family. Alkylaryl imidazoles have been previously shown to inhibit certain CYP450 enzymes, including the CYP4A enzymes associated with 20-HETE synthesis. CAY10434 is a selective inhibitor of the 20-HETE synthase CYP4A11 exhibiting an IC₅₀ value of 8.8 nM when tested in human renal microsomes. CAY10434 is nearly 200 times less potent as an inhibitor of 1A, 1C, and 3A CYP450 enzymes.

Caution: Product has not been fully validated for medical applications. For research use only.

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